

What is claimed is:

- 1 1. A conversion kit for converting an air mover including an exhaust vent into an air  
2 filtration system having a high efficiency particulate air filtration capacity, said kit  
3 comprising:
  - 4 a) a high efficiency particulate air filtration unit comprising an open end of  
5 a size to cover the exhaust vent; and
  - 6 b) a fastener for attaching the open end of the high efficiency particulate air  
7 filtration unit to the exhaust vent, wherein the fastener forms an  
8 airtight seal between the exhaust vent of the air mover and the high  
9 efficiency particulate air filtration unit.
- 1 2. The conversion kit of claim 1, wherein the air mover comprises a stand-alone high-  
2 velocity air mover.
- 1 3. The conversion kit of claim 1, wherein the air filtration system comprises a negative air  
2 apparatus.
- 1 4. The conversion kit of claim 1, wherein the fastener is chosen from the group consisting  
2 of an elastic band, an adhesive strip, and a combination of the two.
- 1 5. The conversion kit of claim 1, wherein the high efficiency particulate air filtration unit  
2 further comprises a high efficiency particulate air filtration bag.
- 1 6. The conversion kit of claim 1, wherein the high efficiency particulate air filtration unit  
2 further comprises:
  - 3 i) a shell having a first shell end and a second shell end, open to air  
4 flow on both ends;
  - 5 ii) a high efficiency particulate air filter structure having a first  
6 structure end and a second structure end and encased in the  
7 shell and extending inward from the second shell end and the  
8 second structure end;

9                   iii) a high efficiency particulate air filter at the second structure end;

10                  iv) a pre-filter space defined by the shell, the first shell end, and the  
11                   first structure end; and

12                  v) an airtight sleeve connecting the first shell end to the exhaust vent,  
13                   wherein the sleeve is secured to the exhaust vent by the  
14                   fastener.

1       7. The conversion kit of claim 6, wherein the high efficiency particulate air filtration unit  
2           further comprises at least one pre-filter located in the pre-filter space and covering  
3           the first structure end.

1       8. The conversion kit of claim 6, wherein the high efficiency particulate air filtration unit  
2           further comprises at least one carbon filter located in the pre-filter space and  
3           covering the first structure end.

1       9. The conversion kit of claim 7, wherein the high efficiency particulate air filtration unit  
2           further comprises at least one carbon filter located in the pre-filter space and  
3           covering the first structure end.

1       10. The conversion kit of claim 6, wherein the high efficiency particulate air filtration unit  
2           further comprises a handle attached to the shell.

1       11. The conversion kit of claim 6, wherein the high efficiency particulate air filtration unit  
2           further comprises a plurality of legs attached to the shell.

1       12. A method of converting an air mover into an air filtration system comprising the steps  
2           of:

3           a) providing an air mover including an exhaust vent;

4           b) providing a fastener;

5           c) providing a high efficiency particulate air filtration unit; and

6 d) attaching the high efficiency particulate air filtration unit to the exhaust  
7 vent by the fastener, thereby forming an airtight seal between the  
8 exhaust vent and the high efficiency particulate air filtration unit.

1 13. The conversion kit of claim 12, wherein the air mover comprises a stand-alone high-  
2 velocity air mover.

1 14. The conversion kit of claim 12, wherein the air filtration system comprises a negative  
2 air apparatus.

1 15. The method of claim 12, wherein the fastener is chosen from the group consisting of  
2 an elastic band, an adhesive strip, and a combination of the two.

1 16. The method of claim 12, wherein the high efficiency particulate air filtration unit  
2 comprises a high efficiency particulate air filtration bag.

1 17. The method of claim 12, wherein the high efficiency particulate air filtration unit  
2 comprises:

3 i) a shell having a first shell end and a second shell end, open to air  
4 flow on both ends;

5 ii) a high efficiency particulate air filter structure having a first  
6 structure end and a second structure end and encased in the  
7 shell and extending inward from the second shell end and the  
8 second structure end;

9 iii) a high efficiency particulate air filter at the second structure end;

10 iv) a pre-filter space defined by the shell, the first shell end, and the  
11 first structure end; and

12 v) an airtight sleeve connecting the first shell end to the exhaust vent,  
13 wherein the sleeve is secured to the exhaust vent of the air  
14 mover by the fastener.

- 1 18. The method of claim 17, wherein the high efficiency particulate air filtration unit  
2 further comprises at least one pre-filter located in the pre-filter space and covering  
3 the first structure end.
- 1 19. The method of claim 17, wherein the high efficiency particulate air filtration unit  
2 further comprises at least one carbon filter located in the pre-filter space and  
3 covering the first structure end.
- 1 20. The method of claim 18, wherein the high efficiency particulate air filtration unit  
2 further comprises at least one carbon filter located in the pre-filter space and  
3 covering the first structure end.
- 1 21. The method of claim 17, wherein the high efficiency particulate air filtration unit  
2 further comprises a handle attached to the shell.
- 1 22. The method of claim 17, wherein the high efficiency particulate air filtration unit  
2 further comprises a plurality of legs attached to the shell.
- 1 23. An air filtration system comprising:  
2 a) an air mover including an exhaust vent;  
3 b) a fastener; and  
4 c) a high efficiency particulate air filtration unit comprising an open end  
5 covering the exhaust vent and attached to the air mover by the  
6 fastener, wherein the fastener forms an airtight seal between the  
7 exhaust vent and the high efficiency particulate air filtration unit.
- 1 24. The air filtration system of claim 23, wherein the air mover comprises a stand-alone  
2 high-velocity air mover.
- 1 25. The air filtration system of claim 23, wherein the air filtration system comprises a  
2 negative air apparatus.
- 1 26. The air filtration system of claim 23, wherein the fastener is chosen from the group  
2 consisting of an elastic band, an adhesive strip, and a combination of the two.

1 27. The air filtration system of claim 23, wherein the high efficiency particulate air  
2 filtration unit further comprises a high efficiency particulate air filtration bag.

1 28. The air filtration system of claim 23, wherein the high efficiency particulate air  
2 filtration unit further comprises:

3 i) a shell having a first shell end and a second shell end, open to air  
4 flow on both ends;

5 ii) a high efficiency particulate air filter structure having a first  
6 structure end and a second structure end and encased in the  
7 shell and extending inward from the second shell end and the  
8 second structure end;

9 iii) a high efficiency particulate air filter at the second structure end;

10 iv) a pre-filter space defined by the shell, the first shell end, and the  
11 first structure end; and

12 v) an airtight sleeve connecting the first shell end to the exhaust vent,  
13 wherein the sleeve is secured to the air mover by the fastener.

1 29. The air filtration system of claim 28, wherein the high efficiency particulate air  
2 filtration unit further comprises at least one pre-filter located in the pre-filter space  
3 and covering the first structure end.

1 30. The air filtration system of claim 28, wherein the high efficiency particulate air  
2 filtration unit further comprises at least one carbon filter located in the pre-filter  
3 space and covering the first structure end.

1 31. The air filtration system of claim 29, wherein the high efficiency particulate air  
2 filtration unit further comprises at least one carbon filter located in the pre-filter  
3 space and covering the first structure end.

1 32. The air filtration system of claim 28, wherein the high efficiency particulate air  
2 filtration unit further comprises a handle attached to the shell.

- 1 33. The air filtration system of claim 28, wherein the high efficiency particulate air  
2 filtration unit further comprises a plurality of legs attached to the shell.